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NOTICE OF ALLOWANCE AND FEE(S) DUE

25226

7500

04/16/2009

MORRISON & FOERSTER LLP 755 PAGE MILL RD PALO ALTO, CA 94304-1018 EXAMINER

KAM, CHIH MIN

ART UNIT PAPER NUMBER

1656 DATE MAILED: 04/16/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/687.951	10/13/2000	Jeffrey L. Cleland	GEN02-002-US	8871	

TITLE OF INVENTION: INJECTION VEHICLE FOR POLYMER-BASED FORMULATIONS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$0	\$0	\$1510	07/16/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

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						(Depositor's name)	
						(Signature)	
						(Date)	
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/687,951	10/13/2000		Jeffrey L. Cleland	•	GEN02-002-US	8871	
TITLE OF INVENTION:	: INJECTION VEHICLI	E FOR POLYMER-BASI	ED FORMULATIONS				
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE I	FEE TOTAL FEE(S) DUE	DATE DUE	
nonprovisional	NO	\$1510	\$0	\$0	\$1510	07/16/2009	
EXAM	INER	ART UNIT	CLASS-SUBCLASS]			
KAM, CH	IIH MIN	1656	424-489000				
1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			(1) the names of up to or agents OR, alternative (2) the name of a single registered attorney or a 2 registered patent atto	For printing on the patent front page, list the names of up to 3 registered patent attorneys agents OR, alternatively, the name of a single firm (having as a member a gistered attorney or agent) and the names of up to registered patent attorneys or agents. If no name is ted, no name will be printed.			
PLEASE NOTE: Unle recordation as set forth (A) NAME OF ASSIC	ess an assignee is ident nin 37 CFR 3.11. Comp BNEE	ified below, no assignee oletion of this form is NO	(B) RESIDENCE: (CITY	atent. If an assignee assignment. 7 and STATE OR CO	UNTRY)	ocument has been filed for oup entity	
4a. The following fee(s) are submitted: Issue Fee Publication Fee (No small entity discount permitted) Advance Order - # of Copies			b. Payment of Fee(s): (Plea A check is enclosed. Payment by credit car The Director is hereby overpayment, to Depo	d. Form PTO-2038 i		eficiency, or credit any	
5. Change in Entity Stat	us (from status indicated SMALL ENTITY statu		Dis Audionéis de los	1.ii CMALI	. ENTITY status. See 37 C	ER 1.27(-)(2)	
						he assignee or other party in	
Authorized Signature				Date			
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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/687,951 10/13/2000		Jeffrey L. Cleland	GEN02-002-US	8871	
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MORRISON & F	FOERSTER LLP	KAM, CHIH MIN			
755 PAGE MILL I		ART UNIT	PAPER NUMBER		
PALO ALTO, CA 94304-1018			1656		
			DATE MAILED: 04/16/200	9	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)			
Notice of Allowability	09/687,951	CLELAND ET AL.			
Notice of Allowability	Examiner	Art Unit			
	CHIH-MIN KAM	1656			
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in this apport or other appropriate communication IGHTS. This application is subject to	plication. If not included will be mailed in due course. THIS			
1. \boxtimes This communication is responsive to <u>1/21/09</u> .					
2. \boxtimes The allowed claim(s) is/are $\underline{20,22,23,25-29,31,33,34,36,40}$	-43,45-66 and 68-73.				
3. ☐ Acknowledgment is made of a claim for foreign priority ura) ☐ All b) ☐ Some* c) ☐ None of the:					
 Certified copies of the priority documents have 					
Certified copies of the priority documents have	been received in Application No	·			
3. Copies of the certified copies of the priority do	cuments have been received in this	national stage application from the			
International Bureau (PCT Rule 17.2(a)).					
* Certified copies not received:					
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements			
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give					
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.				
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached					
1) hereto or 2) to Paper No./Mail Date					
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date					
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t					
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT					
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. ☐ Notice of Informal P	Patent Application			
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary				
	Paper No./Mail Dat	è ´			
3 ☑ Information Disclosure Statements (PTO/SB/CE), Paper No./Mail Date See Continuation Sheet	7. X Exeminer's Amendr	ment/Comment			
4. ☐ Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's Stateme	ent of Reasons for Allowance			
of Biological Material	9.				
/Chih-Min Kam/ Primary Examiner, Art Unit 1656	<u> </u>				

Continuation of Attachment(s) 3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date: 11/2/07 (corrected copy).

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DETAILED ACTION

The Request for Continued Examination (RCE) filed on January 21, 2009 under 37 CFR
 1.114 is acknowledged. An action on the RCE follows.

Status of the Claims

2. Claims 20, 22-23, 25-29, 31, 33, 34, 36, 40-43, 45-66 and 68-73 are pending.

Applicants' amendments filed November 17, 2008 and January 21, 2009 are acknowledged. Applicants' response has been fully considered. In the amendment filed November 17, 2008, claims 20, 22, 33, 34, 40-43, 48, 49, 55, 56, 61-66 and 68-73 have been amended, and claim 67 has been cancelled; and in the amendment filed January 21, 2009, claims 29 and 49 have been amended. Therefore, claims 20, 22-23, 25-29, 31, 33, 34, 36, 40-43, 45-66 and 68-73 are examined.

Withdrawn Claim Rejections - 35 USC § 112

3. The previous rejection of claims 20, 22-23, 25-29, 31, 36, 40-43, 45-66 and 68-73 under 35 U.S.C. 112, second paragraph, is withdrawn in view of applicants' amendment to the claim, and applicants' response at pages 10-11 of the amendment filed November 17, 2008 and at page 10 of the amendment filed January 21, 2009.

Withdrawn Claim Rejections-Obviousness Type Double Patenting

4. The previous rejection of claims 22-23, 25-29, 31, 33, 34, 36, 42, 43, 45-47, 50-59 and 67-73 under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 22-24 and 26-44 of co-pending application 11/614,462, is withdrawn in view of the obviousness-type double patenting rejection is only remaining rejection after the amendment filed January 21, 2009. Since the obviousness-type double patenting rejection is

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provisional and the instant application has an earlier filing date than that of 11/614,462, the rejection is withdrawn (see MPEP 804).

Examiner's Amendment

An **Examiner's Amendment** to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Madeline Johnston on April 9, 2009.

Examiner's Amendment to the Claims:

Claims 20 and 31 have been amended as follows:

20. (Currently amended) A method for administering a biologically active agent, the method comprising:

injecting to an animal a formulation comprising:

- (a) an injection vehicle comprising hyaluronic acid or sodium hyaluronate dissolved in a physiological buffer at a concentration of about 0.01 to about 3 percent weight per volume; and
 - (b) particles comprising:
 - (i) a first component that is the biologically active agent; and
 - (ii) a second component that is a biocompatible polymeric matrix,

wherein the concentration of the polymeric matrix is about 100 mg/mL to about 500 mg/mL of the formulation, and further wherein the hyaluronic acid or sodium hyaluronate is at a concentration sufficient to inject the formulation through a 23-gauge or smaller bore needle.

31. (Currently amended) The injectable formulation of claim 22, wherein the concentration of the particles in the formulation is about \pm 100 mg/mL to about 300 mg/mL.

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The following is an Examiner's Statement of Reasons for Allowance: The following references appear to be the closest art to the claimed invention. Suzuki et al. (US Patent 6,197,326) teach an intra-articular preparation for the treatment of arthropathy, which comprises microcapsules of a biocompatible, high molecular weight substance such as PLGA, homopolymer or copolymer of lactic acid, glycolic acid and caprolactone, and a drug such as cyclosporin; and the microcapsules can be administered in the form of injection by suspending it in a dispersion medium such as water, where a buffer, NaCl, hyaluronic acid, or chondroitin sulfate or salts thereof can be added. However, Suzuki et al. does not teach the concentration of hyaluronic acid is about 0.01 to about 3% (w/v) in a physiological buffer, and the concentration of the particle is about 100 mg/mL to about 500 mg/mL of formulation. Igari et al. (US Patent 5,416,071) teach a pharmaceutical composition suitable of injection comprising erythropoietin (Examples 1-11) or other biological agents such as NGF (Example 12) and hyaluronic acid, where hyaluronic acid, a high molecular weight compound which is known to be biodegradable and pharmacologically injectable at the concentration of 0.01 to 3% (weight to volume). However, Igari et al. is silent on the microcapsule component such as a polymeric matrix used in the formulation. Since the two references either alone or combined do not teach or suggest the injectable formulation comprising (a) an injection vehicle comprising hyaluronic acid or sodium hyaluronate dissolved in a physiological buffer at a concentration of about 0.01 to about 3% (w/v), and (b) a particle comprising a biologically active agent and a biocompatible polymeric matrix, where the concentration of the polymeric matrix is about 100 mg/mL to about 500 mg/mL of formulation, and wherein the hyaluronic acid or sodium hyaluronate is at a concentration sufficient to inject the formulation through a 23-gauge or smaller bore needle; and a method for administering such injectable formulation. Therefore, the claims are allowable over the art of record.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chih-Min Kam whose telephone number is (571) 272-0948. The examiner can normally be reached on 8.00-4:30, Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jon Weber can be reached at 571-272-0925. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Chih-Min Kam/

Primary Examiner, Art Unit 1656

CMK

April 9, 2009